

ABSTRACT

A disclosed constant voltage power supply circuit (1) has an input terminal (Vdd), an output terminal (Vout), a constant voltage power supply unit (2) that generates a constant voltage (V₀₁) with a ripple voltage (V_{ri}), and a ripple removing circuit unit (3) for removing the ripple voltage so that a constant voltage (V₁) without the ripple voltage is output at the output terminal (OUT). The ripple removing circuit unit comprises a resistor (R₁) connected between the constant voltage power supply unit and the output terminal; a ripple voltage detection circuit unit (5) for detecting the ripple voltage and outputting a signal depending on the detected ripple voltage; and a current circuit unit (6, 7) for receiving the signal from the ripple voltage detection circuit unit and supplying a current (i_{o1}) to the output terminal or absorbing a current (i_{o2}) from the resistor in response to the received signal, so as to cancel the ripple voltage at the output terminal.